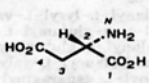
Asparthione
See *Glycine, L-β-aspartyl-L-cysteinyl- [33055-27-5]*
Aspartic acid *[617-45-8]*
The L-isomer has been assumed unless otherwise specified or implied in the original document and is indexed at *L-Aspartic acid [56-84-8]*. When synthetic aspartic acid has been clearly indicated in the original document, the racemate has been assumed and is indexed at this heading. These assumptions have also been made for their *N*-substituted derivs. and for their unsubstituted and *N*-substituted acid derivs. (e.g., esters, hydrazides)
Studies of salts of aluminum, beryllium, gallium, indium, magnesium, thallium and the transition metals are indexed at the headings of these metals. Other metal salts are indexed at the *Aspartic acid* headings
Aspartic acid, esters
4-(phenylmethyl) ester, homopolymer — see also *4-Oxazolidineacetic acid, 2,5-dioxo-, phenylmethyl ester, homopolymer [31622-08-9]*
Aspartic acid
—, **3-chloro-*erythro*-β,5-dihydroxy-*N*-methyl-L-tyrosyl-3,4-didehydro-L-valyl-3-hydroxy-L-isoleucyl-3,4-didehydro-L-prolyl-(*E*)-2,3-didehydroisoleucyl-(*E*)-2,-3-didehydro-**
cyclic (1^5→3)-ether — see *Phomopsin A [64925-80-0]*
—, ***erythro*-β,3-dihydroxy-*N*-methyl-L-tyrosyl-3,4-didehydro-L-valyl-3-hydroxy-L-isoleucyl-3,4-didehydro-L-prolyl-(*E*)-2,-3-didehydroisoleucyl-(*E*)-2,3-didehydro-**
cyclic (1^5→3)-ether — see *Phomopsin B [64925-81-1]*
D-Aspartic acid
—, ***N*-[*N*-[*N*-[*N*-[*N*-[*N*-[*N*-[*N*-[*N*-[*N*-(3-hydroxy-1-oxodecyl)-D-leucyl]-L-α-aspartyl]-L-threonyl]-D-leucyl]-D-leucyl]-D-seryl]-D-leucyl]-L-isoleucyl]-**
γ$_1$-lactone — see *Pholipeptin [169626-46-4]*
—, ***N*-[*N*^{2}-[*N*-[*N*-[*N*-[*N*-(1-D-phenylalanyl-D-prolyl)-D-histidyl]-D-valyl]-D-tyrosyl]-D-valyl]-D-arginyl]-**
See *enantio-retro-Angiotensin II, 4-D-valine- [60299-41-4]*
L-Aspartic acid *[56-84-8]*



—, **L-alanyl-L-α-glutamyl-L-lysyl-L-lysyl-L-α-aspartyl-L-α-glutamylglycyl-L-prolyl-L-tyrosyl-L-arginyl-L-methionyl-L-α-glutamyl-L-histidyl-L-phenylalanyl-L-arginyl-L-tryptophylglycyl-L-seryl-L-prolyl-L-prolyl-L-lysyl-**
See *β-Melanotropin (human) [17908-57-5]*
—, **L-alanyl-L-seryl-L-threonyl-L-glutaminyl-L-histidyl-L-leucyl-L-cysteinylglycyl-L-seryl-L-histidyl-L-leucyl-L-valyl-L-α-glutamyl-L-alanyl-L-leucyl-L-tyrosyl-L-leucyl-L-valyl-L-cysteinylglycyl-L-seryl-L-asparaginylglycyl-L-phenylalanyl-L-phenylalanyl-L-phenylalanyl-L-asparaginyl-L-prolyl-L-lysyl-**
cyclic (7′→7′),(19′→20′)-bis(disulfide) with glycyl-L-isoleucyl-L-valyl-L-α-glutamyl-L-glutaminyl-L-cysteinyl-L-cysteinyl-L-histidyl-L-lysyl-L-prolyl-L-cysteinyl-L-seryl-L-isoleucyl-L-phenylalanyl-L-α-aspartyl-L-leucyl-L-glutaminyl-L-asparaginyl-L-tyrosyl-L-cysteinyl-L-asparagine cyclic (6′→11′)-disulfide — see *Insulin (Anguilla rostrata) [133759-02-1]*
—, ***N*-[*N*-[*N*-[*N*^{2}-[*N*-[*N*-[4-amino-8-[(2,3-dihydroxybenzoyl)amino]-3-hydroxy-1-oxooctyl]-D-seryl]glycyl]-L-arginyl]-*threo*-3-hydroxy-L-α-aspartyl]glycyl]-3-hydroxy-**
ρ-lactone, [*threo*-[*S*-(*R,*S**)]]-** —
see *Alterobactin A [153888-52-9]*
—, **L-arginyl-L-valyl-L-α-aspartyl-L-seryl-L-alanyl-L-α-aspartyl-L-α-glutamyl-L-seryl-L-asparaginyl-L-α-aspartyl-L-α-aspartylglycyl-L-phenylalanyl-**
See *Calfluxin (Lymnaea stagnalis) [118812-41-2]*
—, **L-asparaginylglycyl-L-asparaginyl-L-tyrosyl-L-arginyl-L-methionyl-L-histidyl-L-histidyl-L-phenylalanyl-L-arginyl-L-tryptophylglycyl-L-seryl-L-prolyl-L-prolyl-L-lysyl-**
See *β-Melanotropin (Xenopus laevis) [99223-36-6]*
—, **L-α-aspartyl-L-α-aspartylglycyl-L-prolyl-L-tyrosyl-L-lysyl-L-methionyl-L-α-glutamyl-L-histidyl-L-phenylalanyl-L-arginyl-L-tryptophylglycyl-L-seryl-L-prolylglycyl-L-lysyl-**
See *β-Melanotropin (Mustela vison) [114479-92-4]*
—, **L-α-aspartyl-L-α-glutamylglycyl-L-prolyl-L-tyrosyl-L-arginyl-L-methionyl-L-α-glutamyl-L-histidyl-L-phenylalanyl-L-arginyl-L-tryptophylglycyl-L-seryl-L-prolyl-L-prolyl-L-lysyl-**
See *β-Melanotropin (Macaca nemestrina) [17750-75-3]*
—, **L-α-aspartyl-L-α-glutamylglycyl-L-prolyl-L-tyrosyl-L-lysyl-L-methionyl-L-α-glutamyl-L-histidyl-L-phenylalanyl-L-arginyl-L-tryptophylglycyl-L-seryl-L-prolyl-L-arginyl-L-lysyl-**
See *β-Melanotropin (horse) [58100-24-6]*
—, **L-α-aspartyl-L-α-glutamylglycyl-L-prolyl-L-tyrosyl-L-lysyl-L-methionyl-L-α-glutamyl-L-histidyl-L-phenylalanyl-L-arginyl-L-tryptophylglycyl-L-seryl-L-prolyl-L-prolyl-L-lysyl-**
See *β-Melanotropin (swine) [19941-13-0]*
—, **L-α-aspartylglycylglycyl-L-prolyl-L-tyrosyl-L-lysyl-L-methionyl-L-glutaminyl-L-histidyl-L-phenylalanyl-L-arginyl-L-tryptophylglycyl-L-seryl-L-prolyl-L-prolyl-L-lysyl-**
See *β-Melanotropin (camel 1) [55159-41-6]*
—, **L-α-aspartylglycylglycyl-L-prolyl-L-tyrosyl-L-lysyl-L-methionyl-L-α-glutamyl-L-histidyl-L-phenylalanyl-L-arginyl-L-tryptophylglycyl-L-seryl-L-prolyl-L-prolyl-L-lysyl-**
See *β-Melanotropin (camel 2) [55159-40-5]*
—, **L-α-aspartylglycyl-L-prolyl-L-tyrosyl-L-arginyl-L-valyl-L-α-glutamyl-L-histidyl-L-phenylalanyl-L-arginyl-L-tryptophylglycyl-L-asparaginyl-L-prolyl-L-prolyl-L-lysyl-**
See *β-Melanotropin (rat) [77367-64-7]*
—, **L-α-aspartylglycyl-L-seryl-L-tyrosyl-L-lysyl-L-methionyl-L-histidyl-L-histidyl-L-phenylalanyl-L-arginyl-L-tryptophyl-L-seryl-L-arginyl-L-prolyl-L-prolyl-L-lysyl-**
See *β-Melanotropin (Lepisosteus osseus) [197503-30-3]*
—, **L-α-aspartyl-L-serylglycyl-L-prolyl-L-tyrosyl-L-lysyl-L-methionyl-L-α-glutamyl-L-histidyl-L-phenylalanyl-L-arginyl-L-tryptophylglycyl-L-seryl-L-prolyl-L-prolyl-L-lysyl-**
See *β-Melanotropin (cattle) [17206-74-5]*
—, **3-chloro-*erythro*-β,5-dihydroxy-*N*-methyl-L-tyrosyl-3,4-didehydro-L-valyl-3-hydroxy-L-isoleucyl-3,4-didehydro-L-prolyl-(*E*)-2,3-didehydroisoleucyl-**
cyclic (1^5→3)-ether — see *Phomopsin D [175617-09-1]*
—, **L-α-glutamyl-L-leucyl-L-α-glutamylglycyl-L-α-glutamyl-L-arginyl-L-prolyl-L-leucylglycyl-L-leucyl-L-α-glutamyl-L-glutaminyl-L-valyl-L-leucyl-L-α-glutamyl-L-seryl-L-α-aspartyl-L-alanyl-L-α-glutamyl-L-lysyl-L-α-aspartyl-L-α-aspartylglycyl-L-prolyl-L-tyrosyl-L-arginyl-L-valyl-L-α-glutamyl-L-histidyl-L-phenylalanyl-L-arginyl-L-tryptophylglycyl-L-asparaginyl-L-prolyl-L-prolyl-L-lysyl-**
See *γ-Lipotropin (mouse) [78065-47-1]*
—, **L-α-glutamyl-L-leucyl-L-α-glutamylglycyl-L-α-glutamyl-L-glutaminyl-L-prolyl-L-α-aspartylglycyl-L-leucyl-(α*S*,3*S*)-3-amino-α-(1*H*-imidazol-4-ylmethyl)-2,6-dioxo-1-piperidineacetyl-L-valyl-L-leucyl-L-α-glutamyl-L-prolyl-L-α-aspartyl-L-threonyl-L-α-glutamyl-L-lysyl-L-alanyl-L-α-aspartylglycyl-L-prolyl-L-tyrosyl-L-arginyl-L-valyl-L-α-glutamyl-L-histidyl-L-phenylalanyl-L-arginyl-L-tryptophylglycyl-L-asparaginyl-L-prolyl-L-prolyl-L-lysyl-**
See *γ-Lipotropin 2 (rat) [215249-78-8]*
—, **L-α-glutamyl-L-leucyl-L-α-glutamylglycyl-L-α-glutamyl-L-glutaminyl-L-prolyl-L-α-aspartylglycyl-L-leucyl-L-α-glutamyl-L-histidyl-L-valyl-L-leucyl-L-α-glutamyl-L-prolyl-L-α-aspartyl-L-threonyl-L-α-glutamyl-L-lysyl-L-alanyl-L-α-aspartylglycyl-L-prolyl-L-tyrosyl-L-arginyl-L-valyl-L-α-glutamyl-L-histidyl-L-phenylalanyl-L-arginyl-L-tryptophylglycyl-L-asparaginyl-L-prolyl-L-prolyl-L-lysyl-**
See *γ-Lipotropin 1 (rat) [77465-09-9]*
—, ***N*-[*N*-[*N*^{2}-[*N*-[1-[*N*-[*N*-[*N*-[*N*-[1-[1-(*N*^{2}-glycyl-L-arginyl)-L-prolyl]-*trans*-4-hydroxy-L-prolyl]glycyl]-L-phenylalanyl]-L-seryl]-L-prolyl]-L-phenylalanyl]-L-isoleucyl]-**
See *Vespakinin M [61612-80-4]*
—, **glycyl-L-isoleucyl-L-phenylalanyl-L-seryl-L-seryl-L-arginyl-L-lysyl-L-cysteinyl-L-lysyl-L-threonyl-L-prolyl-L-seryl-L-lysyl-L-threonyl-L-phenylalanyl-L-lysyl-glycyl-L-tyrosyl-L-cysteinyl-L-threonyl-L-arginyl-L-α-aspartyl-L-seryl-L-asparaginyl-L-cysteinyl-L-α-aspartyl-L-threonyl-L-seryl-L-cysteinyl-L-arginyl-L-tyrosyl-L-α-glutamylglycyl-L-tyrosyl-L-prolyl-L-alanylglycyl-**
See *Defensin 7 (Spinacia oleracea reduced) [216213-12-6]*
—, **glycyl-L-isoleucyl-L-valyl-L-α-aspartyl-L-glutaminyl-L-cysteinyl-L-cysteinyl-L-threonyl-L-asparaginyl-L-isoleucyl-L-cysteinyl-L-seryl-L-arginyl-L-asparaginyl-L-glutaminyl-L-leucyl-L-methionyl-L-seryl-L-tyrosyl-L-cysteinyl-L-asparaginyl-**
See *Insulin (nutria-A reduced) [104953-83-5]*
—, ***N*-[*N*-[*N*^{2}-[*N*-[*N*-[*N*^{2}-[*N*-[*N*^{2}-(*N*-glycyl-L-tyrosyl)-L-asparaginyl]-L-leucyl]-L-asparaginyl]glycyl]-L-α-aspartyl]-L-arginyl]-L-isoleucyl]-**
See *Sperm-activating peptide b (Echinometra mathaei type B egg jelly coat) [125851-21-0]*
—, ***N*-[*N*-[*N*^{2}-[*N*-[*N*-[*N*^{2}-(*N*-glycyl-L-tyrosyl)-L-asparaginyl]-L-leucyl]glycyl]-glycyl]glycyl]glycyl]-L-isoleucyl]-**
See *Sperm-activating peptide c (Heterocentrotus mammillatus egg jelly coat) [126166-58-3]*
—, ***N*-[*N*-[*N*-[*N*-[*N*-[*N*-(*N*-glycyl-L-tyrosyl)-L-seryl]-L-leucyl]-L-seryl]glycyl]-glycyl]-L-alanyl]-L-valyl]-**
See *Sperm-activating peptide a (Echinometra mathaei egg jelly coat) [125851-20-9]*
—, **L-histidyl-L-alanyl-L-α-aspartylglycyl-L-isoleucyl-L-tyrosyl-L-threonyl-L-seryl-L-α-aspartyl-L-valyl-L-alanyl-L-seryl-L-leucyl-L-threonyl-L-α-aspartyl-L-tyrosyl-L-leucyl-L-lysyl-L-seryl-L-lysyl-L-arginyl-L-phenylalanyl-L-valyl-L-α-glutamyl-L-seryl-L-leucyl-L-seryl-L-asparaginyl-L-tyrosyl-L-asparaginyl-L-lysyl-L-arginyl-L-glutaminyl-L-asparaginyl-**
See *Glucagon-like peptide G 35 (Hydrolagus colliei) [119883-11-3]*
—, **L-histidyl-L-alanyl-L-α-aspartylglycyl-L-seryl-L-phenylalanyl-L-seryl-L-α-aspartyl-L-α-glutamyl-L-methionyl-L-asparaginyl-L-threonyl-L-valyl-L-leucyl-L-α-aspartyl-L-asparaginyl-L-leucyl-L-alanyl-L-threonyl-L-arginyl-L-α-aspartyl-L-phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-leucyl-L-histidyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl-**
See *Glucagon-like peptide II (swine) [116111-21-8]*
—, **L-histidyl-L-alanyl-L-α-aspartylglycyl-L-seryl-L-phenylalanyl-L-seryl-L-α-aspartyl-L-α-glutamyl-L-methionyl-L-asparaginyl-L-threonyl-L-valyl-L-leucyl-L-α-aspartyl-L-histidyl-L-leucyl-L-alanyl-L-threonyl-L-lysyl-L-α-aspartyl-L-phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-L-glutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl-**
See *Glucagon-like peptide 2 (Octodon degus) [130587-29-0]*
—, **L-histidyl-L-alanyl-L-α-aspartylglycyl-L-seryl-L-phenylalanyl-L-seryl-L-α-aspartyl-L-α-glutamyl-L-methionyl-L-asparaginyl-L-tyrosyl-L-valyl-L-leucyl-L-α-aspartyl-L-seryl-L-leucyl-L-alanyl-L-threonyl-L-arginyl-L-α-aspartyl-L-phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-leucyl-L-glutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl-**
See *Glucagon-like peptide II (cattle) [87805-31-0]*
—, **L-histidyl-L-alanylglycyl-L-threonyl-L-tyrosyl-L-threonyl-L-seryl-L-α-aspartyl-L-valyl-L-seryl-L-seryl-L-tyrosyl-L-leucyl-L-glutaminyl-L-α-aspartyl-L-glutaminyl-L-alanyl-L-alanyl-L-lysyl-L-α-glutamyl-L-phenylalanyl-L-valyl-L-seryl-L-tryptophyl-L-leucyl-L-lysyl-L-threonylglycyl-L-arginylglycyl-L-arginyl-L-arginyl-**
See *Glucagon-like peptide (Tilapia nilotica) [168678-22-6]*
—, ***threo*-3-hydroxy-*N*-[*trans*-3-hydroxy-1-[*N*-[*threo*-3-hydroxy-*N*-[*N*^{2}-[*trans*-3-hydroxy-1-[*N*-[*N*-(3-hydroxy-14-methyl-1-oxopentadecyl)-D-allothreonyl]-D-alanyl]-L-prolyl]-L-arginyl]-D-α-aspartyl]-D-seryl]-L-prolyl]-**
β$_1$-lactone — for specific stereoisomers see such headings as *Plusbacin A$_3$ [136660-70-3]*
—, ***threo*-3-hydroxy-*N*-[*trans*-3-hydroxy-1-[*N*-[*threo*-3-hydroxy-*N*-[*N*^{2}-[*trans*-3-hydroxy-1-[*N*-[*N*-(3-hydroxy-13-methyl-1-oxotetradecyl)-D-allothreonyl]-D-alanyl]-L-prolyl]-L-arginyl]-D-α-aspartyl]-D-seryl]-L-prolyl]-**
β$_1$-lactone — for specific stereoisomers see such headings as *Plusbacin A$_2$ [136660-69-0]*
—, ***threo*-3-hydroxy-*N*-[*trans*-3-hydroxy-1-[*N*-[*threo*-3-hydroxy-*N*-[*N*^{2}-[*trans*-3-hydroxy-1-[*N*-[*N*-(3-hydroxy-1-oxohexadecyl)-D-allothreonyl]-D-alanyl]-L-prolyl]-L-arginyl]-D-α-aspartyl]-D-seryl]-L-prolyl]-**
β$_1$-lactone — for specific stereoisomers see such headings as *Plusbacin A$_4$ [136634-58-7]*
—, ***threo*-3-hydroxy-*N*-[*trans*-3-hydroxy-1-[*N*-[*threo*-3-hydroxy-*N*-[*N*^{2}-[*trans*-3-hydroxy-1-[*N*-[*N*-(3-hydroxy-1-oxotetradecyl)-D-allothreonyl]-D-alanyl]-L-prolyl]-L-arginyl]-D-α-aspartyl]-D-seryl]-L-prolyl]-**
β$_1$-lactone — for specific stereoisomers see such headings as *Plusbacin A$_1$ [136634-57-6]*
—, ***threo*-3-hydroxy-*N*-[*trans*-3-hydroxy-1-[*N*-[*threo*-3-hydroxy-*N*-[*N*^{2}-[1-[*N*-[*N*-(3-hydroxy-14-methyl-1-oxopentadecyl)-D-allothreonyl]-D-alanyl]-L-prolyl]-L-arginyl]-D-α-aspartyl]-D-seryl]-L-prolyl]-**
β$_1$-lactone — for specific stereoisomers see such headings as *Plusbacin B$_3$ [136660-71-4]*
—, ***threo*-3-hydroxy-*N*-[*trans*-3-hydroxy-1-[*N*-[*threo*-3-hydroxy-*N*-[*N*^{2}-[1-[*N*-[*N*-(3-hydroxy-13-methyl-1-oxotetradecyl)-D-allothreonyl]-D-alanyl]-L-prolyl]-L-arginyl]-D-α-aspartyl]-D-seryl]-L-prolyl]-**
β$_1$-lactone — for specific stereoisomers see such headings as *Plusbacin B$_2$ [136634-60-1]*
—, ***threo*-3-hydroxy-*N*-[*trans*-3-hydroxy-1-[*N*-[*threo*-3-hydroxy-*N*-[*N*^{2}-[1-[*N*-[*N*-(3-hydroxy-1-oxohexadecyl)-D-allothreonyl]-D-alanyl]-L-prolyl]-L-arginyl]-D-α-aspartyl]-D-seryl]-L-prolyl]-**
β$_1$-lactone — for specific stereoisomers see such headings as *Plusbacin B$_4$ [136660-72-5]*
—, ***threo*-3-hydroxy-*N*-[*trans*-3-hydroxy-1-[*N*-[*threo*-3-hydroxy-*N*-[*N*^{2}-[1-[*N*-[*N*-(3-hydroxy-1-oxotetradecyl)-D-allothreonyl]-D-alanyl]-L-prolyl]-L-arginyl]-D-α-aspartyl]-D-seryl]-L-prolyl]-**
β$_1$-lactone — for specific stereoisomers see such headings as *Plusbacin B$_1$ [136634-59-8]*
—, **3-hydroxy-*N*-[*trans*-3-hydroxy-1-[*N*-[*threo*-3-hydroxy-*N*-[*N*^{2}-[1-[*N*-[1-(3-hydroxy-1-oxotetradecyl)-D-prolyl]-D-**